

# Targeting CAIX with small molecules

Citation for published version (APA):

Parvathaneni, N. K. (2017). *Targeting CAIX with small molecules: design, synthesis and biological efficacy*. [Doctoral Thesis, Maastricht University]. Datawyse / Universitaire Pers Maastricht. <https://doi.org/10.26481/dis.20171212nkp>

**Document status and date:**

Published: 01/01/2017

**DOI:**

[10.26481/dis.20171212nkp](https://doi.org/10.26481/dis.20171212nkp)

**Document Version:**

Publisher's PDF, also known as Version of record

**Please check the document version of this publication:**

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- The final published version features the final layout of the paper including the volume, issue and page numbers.

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## Propositions

Targeting CAIX with small molecules: Design, Synthesis and Biological efficacy

**Nanda Kumar Parvathaneni**

1. Structure-Activity Relationship (SAR) studies on nitroimidazoles might help to develop ideal radiosensitizers – This thesis
2. Dual Target compounds incorporating a nitroimidazole and a CAIX inhibitor moiety increase the efficacy of standard treatment modalities – This thesis
3. Combining potentially cytotoxic drugs with CAIX inhibitors may improve treatment outcome – This thesis
4. SAR studies on the effect of linker and substitution on CAIX inhibitors might help to increase the specific and selective inhibition – This thesis
5. Personalized medicine is changing the way we fight cancer forever – Doug Hilton
6. Greater understanding of cancer biology has made targeted drugs possible – Martin Drysdale
7. Chemistry past was making simplish molecules, chemistry present is complex molecules, chemistry future is systems of molecules – Lee Cronin
8. Bio-reducible drugs with cytotoxic warheads targeting CAIX would help drug delivery at tumor site with minimal side effects – Valorization addendum
9. A fact acquires its true and full value only through the idea which is developed from it – Justus von Liebig
10. If you are not willing to risk the unusual, you will have to settle for the ordinary – Jim Rohn
11. The great end of the life is not knowledge but action – Francis Bacon